

Review of: "A Rapid and Robust DNA Extraction Method for PCR-Based Diagnosis of *V. cholerae*"

Pooja Yadav¹

¹ Maharshi Dayanand University

Potential competing interests: No potential competing interests to declare.

Your study on developing a rapid, cost-effective DNA extraction method for detecting *V. cholerae* through PCR assays presents several strengths and areas for improvement. The method demonstrated efficacy in amplifying target genes across various strains of *V. cholerae* O1, indicating its potential utility in early cholera diagnosis. However, there are several suggestions to strengthen your work:

Ensure that the DNA extraction method is rigorously compared with established gold standards (conventional culture and biochemical tests) or commonly used methods in terms of sensitivity, specificity, and reliability across different sample types (e.g., clinical isolates, environmental samples).

Validate the newly developed method against a larger number and diversity of *V. cholerae* strains, including non-O1 and non-O139 strains, to assess its robustness and specificity comprehensively.

Discuss future directions for optimizing and refining the method, such as exploring modifications that could enhance its efficiency further or adapting it for use with different types of clinical samples (e.g., stool, rectal swabs).

While your study is robust, suggestions for improvement include further validation against a larger sample size, comparison with commercial kits, and clear documentation of limitations.

Your study is solid with a clear focus on method development and validation for rapid cholera diagnosis. Implementing suggested improvements could further enhance its impact and practical utility in public health settings.